

TABLE 24. Funds for and companies performing industrial basic research, applied research, and development in the United States, by industry and company size, by source of funds: 2006  
(Millions of dollars)

Industry and company size	NAICS codes	Companies (number)	All industrial R&D			Basic research		
			Total	Federal	Company and other	Total	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	44,266	247,669	24,304	223,365	8,384	1,444	6,940
Manufacturing industries	31–33	18,677	171,814	16,584	155,230	6,122	747	5,375
Food	311	728	2,720	4	2,716	156	D	D
Beverage and tobacco products	312	39	547 i	0	547 i	6	0	6
Textiles, apparel, and leather	313–16	505	594	11	583	D	0	D
Wood products	321	329	195	2	192	7 i	0	7 i
Paper, printing, and support activities	322, 323	573	D	D	2,793	54	0	54
Petroleum and coal products	324	107	1,432	1	1,431	D	*	D
Chemicals	325	1,921	46,329	211	46,119	2,571	D	D
Basic chemicals	3251	270	2,152	98	2,054	158	D	D
Resin, synthetic rubber, fibers, and filament	3252	152	1,975	13	1,963	171	0	171
Pharmaceuticals and medicines	3254	483	38,901	88	38,813	2,111	D	D
Other chemicals	other 325	1,016	3,300	12	3,288	130	*	130
Plastics and rubber products	326	1,236	2,245	27	2,217	D	D	D
Nonmetallic mineral products	327	398	1,014	78	936	D	D	81
Primary metals	331	236	651	13	638	7	D	D
Fabricated metal products	332	2,417	1,499	67 i	1,432	14	0	14
Machinery	333	3,114	9,848	106	9,743	88	17	71
Computer and electronic products	334	2,795	56,773	8,522	48,251	1,137	108	1,030
Computers and peripheral equipment	3341	289	D	D	7,289	D	D	D
Communications equipment	3342	500	D	D	10,911	D	D	D
Semiconductor and other electronic components	3344	728	18,888	354	18,534	540	14	526
Navigational, measuring, electromedical, and control instruments	3345	1,103	18,300	7,860	10,440	252	D	D
Other computer and electronic products	other 334	176	D	D	1,076	D	0	D
Electrical equipment, appliances, and components	335	986	2,281	66	2,215	D	D	D
Transportation equipment	336	1,129	D	D	30,010	D	D	D
Motor vehicles, trailers, and parts	3361–63	783	D	D	16,562	D	D	D
Aerospace products and parts	3364	132	16,367	4,372	11,995	604	155	449
Other transportation equipment	other 336	214	D	D	1,453	D	D	D
Furniture and related products	337	421	D	D	371	7	0	7
Miscellaneous manufacturing	339	1,741	5,150	114	5,036	219	6 i	214
Medical equipment and supplies	3391	923	4,098	101	3,998	193	D	D
Other miscellaneous manufacturing	other 339	818	1,052	14	1,038	26	D	D

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			Total	Federal	Company and other	Total	Federal	Company and other
Nonmanufacturing industries	21–23, 42, 44–81	25,590	75,855	7,719	68,135	2,262	697	1,565
Mining, extraction, and support activities	21	142	D	D	1,123	D	0	D
Utilities	22	175	248	34	214	2	D	D
Construction	23	795	1,379	12	1,368	D	D	D
Wholesale trade	42	3,276	2,072	18	2,054	18	D	D
Retail trade	44, 45	577	D	D	1,372	D	0	D
Transportation and warehousing	48, 49	27	D	D	277	D	0	D
Information	51	3,138	26,883	136	26,748	177	D	D
Publishing	511	1,816	D	D	19,946	D	D	57
Newspaper, periodical, book, and directory	5111	235	D	D	992	D	0	D
Software	5112	1,581	D	D	18,953	D	D	D
Telecommunications	517	162	D	D	2,135	D	0	D
Wired and wireless (except satellite)								
telecommunications carriers	5171, 5172	63	D	D	1,688	D	0	D
Satellite telecommunications	5174	6	D	0	D	0	0	0
Other telecommunications	other 517	94	D	0	D	D	0	D
Internet service providers, Web search portals, and data-processing services	518	774	4,029	93	3,936	D	D	D
Internet service providers and Web search portals	5181	143	D	0	D	D	0	D
Data-processing, hosting, and related services	5182	630	D	93	D	D	D	D
Other information	other 51	385	732	*	731	D	0	D
Finance, insurance, and real estate	52, 53	1,021	1,969	0	1,969	37	0	37
Professional, scientific, and technical services	54	10,856	38,049	7,438	30,611	1,719	676	1,043
Architectural, engineering, and related services	5413	2,444	6,579	1,714	4,866	121	52	69
Computer systems design and related services	5415	5,316	14,841	1,011	13,830	349	57	292
Scientific R&D services	5417	2,268	14,525	4,495	10,030	1,218	561	657
Other professional, scientific, and technical services	other 54	829	2,105	219	1,885	32	7	25
Health care services	621–23	1,945	992	37	955	D	D	D
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	3,637	1,479	34	1,445	18	D	D

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		Companies (number)	All industrial R&D			Basic research		
Industry and company size	NAICS codes		Total	Federal	Company and other	Total	Federal	Company and other
Company size (employees)								
All companies	-	44,266	247,669	24,304	223,365	8,384	1,444	6,940
5-24	-	21,153	7,207	1,121	6,087	308	78	230
25-49	-	6,815	D	D	6,465	244	85	159
50-99	-	7,035	9,064	704	8,360	301	97	205
100-249	-	4,372	13,306	1,206	12,101	533	102	431
250-499	-	1,941	D	D	7,944	256	19	236
500-999	-	1,441	13,360	878	12,482	376	101	275
1,000-4,999	-	1,065	37,866	1,847	36,019	940	29	911
5,000-9,999	-	195	20,434	657	19,776	658	18	640
10,000-24,999	-	145	37,865	1,816	36,049	2,061	61	2,000
25,000 or more	-	105	92,925	14,843	78,082	2,707	854	1,853

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Industry and company size	NAICS codes	Applied research			Development		
		Total	Federal	Company and other	Total	Federal	Company and other
All industries	21–23, 31–33, 42, 44–81	51,173	6,140	45,033	188,111	16,719	171,392
Manufacturing industries	31–33	35,654	3,196	32,458	130,038	12,642	117,396
Food	311	552	D	D	2,012	D	D
Beverage and tobacco products	312	331	0	331	210	0	210
Textiles, apparel, and leather	313–16	D	D	D	534	D	D
Wood products	321	72 i	0	72 i	116	2	114
Paper, printing, and support activities	322, 323	D	D	D	D	D	D
Petroleum and coal products	324	D	*	D	D	*	D
Chemicals	325	11,776	86	11,689	31,983	D	D
Basic chemicals	3251	588	D	D	1,407	51	1,355
Resin, synthetic rubber, fibers, and filament	3252	1,114	D	D	691	D	D
Pharmaceuticals and medicines	3254	9,229	D	D	27,561	43	27,518
Other chemicals	other 325	845	1	844	2,325	11	2,314
Plastics and rubber products	326	D	D	D	D	D	D
Nonmetallic mineral products	327	319	9	310	D	D	546
Primary metals	331	177	D	D	466	D	D
Fabricated metal products	332	255	1	254	1,230	66 i	1,164
Machinery	333	1,550	27	1,522	8,210	61	8,149
Computer and electronic products	334	10,745	583	10,161	44,891	7,831	37,060
Computers and peripheral equipment	3341	D	D	D	6,183	D	D
Communications equipment	3342	D	D	2,759	8,136	D	D
Semiconductor and other electronic components	3344	4,559	54	4,505	13,789	286	13,503
Navigational, measuring, electromedical, and control instruments	3345	2,276	430	1,845	15,772	D	D
Other computer and electronic products	other 334	D	0	D	1,011	D	D
Electrical equipment, appliances, and components	335	D	D	D	1,826	D	D
Transportation equipment	336	6,190	2,365	3,824	29,725	D	D
Motor vehicles, trailers, and parts	3361–63	D	D	2,223	14,177	D	D
Aerospace products and parts	3364	3,361	1,944	1,417	12,402	2,273	10,129
Other transportation equipment	other 336	D	D	184	3,146	D	D
Furniture and related products	337	D	0	D	D	D	D
Miscellaneous manufacturing	339	1,103	89	1,014	3,828	20	3,808
Medical equipment and supplies	3391	965	D	D	2,940	17	2,923
Other miscellaneous manufacturing	other 339	138	D	D	888	3	885

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Nonmanufacturing industries	21–23, 42, 44–81	15,519	2,944	12,575	58,073	4,078	53,996
Mining, extraction, and support activities	21	D	D	D	706	D	D
Utilities	22	D	D	D	D	D	D
Construction	23	780	D	D	D	D	D
Wholesale trade	42	369	D	D	1,685	D	D
Retail trade	44, 45	D	0	D	1,211	D	D
Transportation and warehousing	48, 49	D	D	D	219	0	219
Information	51	2,958	12	2,947	23,748	D	D
Publishing	511	D	D	2,278	17,628	17	17,611
Newspaper, periodical, book, and directory	5111	D	D	D	981	0	981
Software	5112	D	D	D	16,647	17	16,630
Telecommunications	517	D	0	D	1,969	D	D
Wired and wireless (except satellite)							
telecommunications carriers	5171, 5172	D	0	D	D	D	D
Satellite telecommunications	5174	0	0	0	D	0	D
Other telecommunications	other 517	27	0	27	D	0	D
Internet service providers, Web search portals, and data-processing services	518	D	D	D	3,503	D	D
Internet service providers and Web search portals	5181	34	0	34	1,487	0	1,487
Data-processing, hosting, and related services	5182	D	D	D	2,017	D	D
Other information	other 51	D	*	D	647	0	647
Finance, insurance, and real estate	52, 53	65	0	65	1,868	0	1,868
Professional, scientific, and technical services	54	10,232	2,855	7,377	26,098	3,906	22,192
Architectural, engineering, and related services	5413	1,702	512	1,190	4,757	1,150	3,607
Computer systems design and related services	5415	1,535	376	1,159	12,957	577	12,379
Scientific R&D services	5417	5,629	1,953	3,677	7,678	1,981	5,697
Other professional, scientific, and technical services	other 54	1,367	15	1,352	706	197	509
Health care services	621–23	264	D	D	D	D	D
Other nonmanufacturing <sup>a</sup>	55, 56, 61, 624, 71, 72, 81	201	D	D	1,260	11	1,249

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		Total	Federal	Company and other	Total	Federal	Company and other
Industry and company size	NAICS codes						
Company size (employees)							
All companies	-	51,173	6,140	45,033	188,111	16,719	171,392
5–24	-	2,301	444	1,857	4,598	599	3,999
25–49	-	D	D	1,980	4,651	325	4,326
50–99	-	3,277	301	2,976	5,486	306	5,179
100–249	-	2,643	274	2,369	10,130	830	9,300
250–499	-	D	D	1,643	6,393	329	6,064
500–999	-	3,667	325	3,342	9,318	452	8,866
1,000–4,999	-	8,085	738	7,347	28,841	1,081	27,760
5,000–9,999	-	4,833	66	4,766	14,943	573 i	14,370
10,000–24,999	-	8,984	281	8,703	26,820	1,474	25,346
25,000 or more	-	13,285	3,236	10,049	76,932	10,752	66,180

\* = amount < \$500,000; D = suppressed to avoid disclosure of confidential information; i = more than 50% of the value is imputed; - = not applicable.

<sup>a</sup> Estimates for management of companies and enterprises (NAICS 55), formerly shown separately, now are included in other nonmanufacturing.

NOTES: Detail does not add to total due to rounding or suppression. The method used to assign industry classifications has changed; industry-specific estimates are not directly comparable with those for years prior to 2004. Excludes federally funded research and development centers. During statistical processing, when R&D was not allocated among the three character-of-work categories (basic research, applied research, and development) by survey respondents, algorithms were used to do the allocation. See table A-7 for the amount of undistributed R&D and the number of companies that reported R&D in each category. The R&D in this table is the industrial R&D performed within company facilities funded from all sources. The funds are the company's own; funds from outside organizations, such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments; and funds from the federal government. Excludes R&D performed outside the company (e.g., R&D performed by other organizations) and R&D performed outside of the 50 U.S. states or DC (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations). For definitions and more information about year-to-year comparability of the statistics, see technical notes and survey methodology.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2006.